



Community Experience Distilled

# Continuous Delivery and DevOps – A Quickstart Guide

## *Second Edition*

Deliver quality software regularly and painlessly by adopting CD and DevOps

**Paul Swartout**

**[PACKT]** open source\*  
PUBLISHING

# Continuous Delivery And Devops A Quickstart Guide Second Edition

**Joakim Verona**



## **Continuous Delivery And Devops A Quickstart Guide Second Edition:**

Continuous Delivery and Devops - A QuickStart Guide Second Edition Paul Swartout,2014-12-24 If you are an IT professional software developer or system administrator who wants to understand how to ship quality software regularly effectively and efficiently this book is for you Previous knowledge of DevOps practices Continuous Delivery or using DevOps tools is not necessary

**Learning DevOps: Continuously Deliver Better Software** Joakim Verona,Michael Duffy,Paul Swartout,2016-09-22 Learn to use some of the most exciting and powerful tools to deliver world class quality software with continuous delivery and DevOps About This Book Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer Deploy top quality software and ensure software maintenance and release management with this practical guide This course covers some of the most exciting technology available to DevOps engineers and demonstrates multiple techniques for using them Real world and realistic examples are provided to help you as you go about the implementation and adoption of continuous delivery and DevOps Who This Book Is For This course is for developers who want to understand how the infrastructure that builds today s enterprises works and how to painlessly and regularly ship quality software What You Will Learn Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application that is suitable for continuous deployment systems with DevOps in mind Test the code using automated regression testing with Jenkins Selenium Managing the lifecycle of hosts from creation to ongoing management using Puppet Razor Find out how to manage use and work with Code in the Git version management system See what traps pitfalls and hurdles to look out for as you implement continuous delivery and DevOps In Detail Harness the power of DevOps to boost your skill set and make your IT organization perform better If you re keen to employ DevOps techniques to better your software development this course contains all you need to overcome the day to day complications of managing complex infrastructures the DevOps way Start with your first module Practical DevOps that encompasses the entire flow from code from testing to production Get a solid ground level knowledge of how to monitor code for any anomalies perform code testing and make sure the code is running smoothly through a series of real world exercise and develop practical skills by creating a sample enterprise Java application In the second module run through a series of tailored mini tutorials designed to give you a complete understanding of every DevOps automation technique Create real change in the way you deliver your projects by utilizing some of the most commendable software available today Go from your first steps of managing code in Git to configuration management in Puppet monitoring using Sensu and more In the final module get to grips with the continuous delivery techniques that will help you reduce the time and effort that goes into the delivery and support of software This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Practical DevOps by Joakim Verona DevOps Automation Cookbook by Michael Duffy Continuous Delivery and DevOps A Quickstart Guide Second Edition by Paul

Swartout Style and approach This course is an easy to follow project based guide for all those with a keen interest in deploying world class software using some of the most effective and remarkable technologies available DevOps - A Business Perspective Oleg Skrynnik,2018-12-14 This book explains the management aspects of DevOps for those who are professionally engaged in information and technology management It does not show DevOps as a phenomenon associated with new automation tools programming techniques or technologies It differs from other books by the structural nature of the narrative perhaps excessively structured approach and by the attempt to cover fully the phenomenon of DevOps at a basic fundamental level By this approach this book not only creates awareness of the new subject area but is also helps building the basics The reader learns about the origins of DevOps the inevitability of its emergence the key prerequisites and their reflection in practices about the practices themselves and the principles on which they are based This book is the core literature of the EXIN DevOps Foundation certification This exam tests the understanding of basic DevOps concepts and how they relate to each other as well as the value of DevOps for the business EXIN DevOps Foundation is the first level of the EXIN DevOps certification program The EXIN DevOps Professional certification tests the knowledge of DevOps practices and how to integrate teams The EXIN DevOps Master certification is about promoting organizational change and leading the way towards continuous delivery and improvement Mastering JBoss Enterprise Application Platform 7 Francesco Marchioni,Luigi Fugaro,2016-08-31 Create modular scalable enterprise grade applications with JBoss Enterprise Application Platform 7 About This Book Leverage the power of JBoss EAP 7 along with Java EE 7 to create professional enterprise grade applications Get you applications cloud ready and make them highly scalable using this advanced guide Become a pro Java Developer and move ahead of the crowd with this advanced practical guide Who This Book Is For The ideal target audience for this book is Java System Administrators who already have some experience with JBoss EAP and who now want explore in depth creating Enterprise grade apps with the latest JBoss EAP version What You Will Learn Configure services using the Command Line Interface Deliver fault tolerant server configurations Harden the application server with advanced techniques Expand the application server s horizon with tools such as like Docker OpenShift Create enterprise ready configurations using clustering techniques Deliver advanced security solutions and learn how to troubleshoot common network performance issues In Detail The JBoss Enterprise Application Platform EAP has been one of the most popular tools for Java developers to create modular cloud ready and modern applications It has achieved a reputation for architectural excellence and technical savvy making it a solid and efficient environment for delivering your applications The book will first introduce application server configuration and the management instruments that can be used to control the application server Next the focus will shift to enterprise solutions such as clustering load balancing and data caching this will be the core of the book We will also discuss services provided by the application server such as database connectivity and logging We focus on real world example configurations and how to avoid common mistakes Finally we will implement the knowledge gained so far in terms

of Docker containers and cloud availability using RedHat's OpenShift Style and approach If you are a Java developer who wants to level up to modern day Java web development with the latest Java EE 7 and JBoss EAP 7 this book is the ideal solution for you It addresses in a clear and simple way proof of concept scenarios such as clustering and cloud and container configurations and explains how to solve common issues

**DevOps Handboek** Oleg Skrynnik, 2019-03-27 Dit boek legt de managementaspecten van DevOps uit voor degenen die zich professioneel bezighouden met informatie en technologiemanagement Het is geschreven voor IT specialisten IT managers en IT executives Het toont DevOps niet als een fenomeen dat geassocieerd wordt met nieuwe automatiseringstools programmeertechnieken of technologie n en het verschilt van andere boeken door het gestructureerde verhaal misschien is het overmatig gestructureerd en door de poging om het fenomeen DevOps volledig te dekken op zowel een basis als een fundamenteel niveau Door die benadering wordt de lezer zich bewust van het nieuwe onderwerp en helpt het boek de fundering de bouwen de basis De lezer leert over de oorsprong van DevOps de onvermijdelijkheid van zijn opkomst de belangrijkste voorwaarden ervan en hoe die in de praktijk tot uiting komen over de praktijk zelf en de principes waarop die is gebaseerd In dit boek staat de stof voor de EXIN DevOps Foundation certificering Dit examen test het begrip van 1 de basisconcepten van DevOps 2 hoe deze aan elkaar gerelateerd zijn en 3 de waarde van DevOps voor de business EXIN DevOps Foundation is het eerste niveau van het EXIN DevOps certificeringsprogramma De EXIN DevOps Professional certificering test de kennis van de DevOps praktijk en van hoe teams te integreren De EXIN DevOps Master certificering gaat over het bevorderen van organisatieverandering en over het toeleiden naar continu leveren en verbeteren

**Continuous Delivery and DevOps - A Quickstart Guide** Paul Swartout, 2018-10-31 A practical and engaging guide to help map out plan and navigate through the journey to successful CD and DevOps adoption Key Features Identify and overcome the issues that stifle the delivery of quality software Learn how Continuous Delivery and DevOps work together with other agile tools Real world examples tricks and tips that will help the successful adoption of CD DevOps Book Description Over the past few years Continuous Delivery CD and DevOps have been in the spotlight in tech media at conferences and in boardrooms alike Many articles and books have been written covering the technical aspects of CD and DevOps yet the vast majority of the industry doesn't fully understand what they actually are and how if adopted correctly they can help organizations drastically change the way they deliver value This book will help you figure out how CD and DevOps can help you to optimize streamline and improve the way you work to consistently deliver quality software In this edition you'll be introduced to modern tools techniques and examples to help you understand what the adoption of CD and DevOps entails It provides clear and concise insights in to what CD and DevOps are all about how to go about both preparing for and adopting them and what quantifiable value they bring You will be guided through the various stages of adoption the impact they will have on your business and those working within it how to overcome common problems and what to do once CD and DevOps have become truly embedded Included within this book are some real world

examples tricks and tips that will help ease the adoption process and allow you to fully utilize the power of CD and DevOps  
What you will learnExplore Continuous Delivery and DevOps in depthDiscover how CD and DevOps fits in with recent trends such as DataOps SecOps pipelines and CIUnderstand the root causes of the pain points within your existing product delivery processUnderstand the human elements of CD and DevOps and how intrinsic they are to your successAvoid common traps pitfalls and hurdles as you implement CD and DevOpsMonitor and communicate the relative success of DevOps and CD adoptionExtend and reuse CD and DevOps approachesWho this book is for Whether you are a software developer a system administrator an agile coach a product manager a project manager a CTO a VP a CEO or anyone else involved in software delivery you will have a common problem which is delivering quality software This book has been written for anyone and everyone who wants to understand how to regularly deliver quality software to their customers without said pain

**Continuous Delivery and DevOps** Paul Swartout,2012 This book is both a practical and theoretical guide detailing how to implement continuous delivery and DevOps to consistently ship quality software quickly Whether you are a freelance software developer a system administrator working within a corporate business an IT project manager or a CTO in a startup you will have a common problem regularly shipping quality software is painful It needn't be This book is for anyone who wants to understand how to ship quality software regularly without the pain [Learning DevOps Continuously Deliver Better Software](#) Vimal S.Swaan,2017-03-23 What You Will Learn Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application that is suitable for continuous deployment systems with DevOps in mind Test the code using automated regression testing with Jenkins Selenium Managing the lifecycle of hosts from creation to ongoing management using Puppet Razor Find out how to manage use and work with Code in the Git version management system See what traps pitfalls and hurdles to look out for as you implement continuous delivery and DevOps In Detail Harness the power of DevOps to boost your skill set and make your IT organization perform better If you're keen to employ DevOps techniques to better your software development this course contains all you need to overcome the day to day complications of managing complex infrastructures the DevOps way Start with your first module Practical DevOps that encompasses the entire flow from code from testing to production Get a solid ground level knowledge of how to monitor code for any anomalies perform code testing and make sure the code is running smoothly through a series of real world exercise and develop practical skills by creating a sample enterprise Java application In the second module run through a series of tailored mini tutorials designed to give you a complete understanding of every DevOps automation technique Create real change in the way you deliver your projects by utilizing some of the most commendable software available today Go from your first steps of managing code in Git to configuration management in Puppet monitoring using Sensu and more In the final module get to grips with the continuous delivery techniques that will help you reduce the time and effort that goes into the delivery and support of software This Learning Path combines some of the best that Packt has to offer in one complete curated

package It includes content from the following Packt products Practical DevOps by Joakim Verona DevOps Automation Cookbook by Michael Duffy Continuous Delivery and DevOps A Quickstart Guide Second Edition by Paul Swartout

DevOps Sergei Dinkem,2019-12-30 Complete Guide to Get Started with DevOpsDevOps is powerful set of collaborative practices that can take your project to the next level faster than you expect but only if you understand it and properly implement it Want to master DevOps quickly There are so many uses for DevOps and so many compelling reasons to implement DevOps in your business or for your own projects With this guide in your hands it is easier than ever to maximize your efficiency and productivity in business and in other projects When you understand how to use DevOps to its maximum potential you unlock greater efficiency and make better use of your time and your team s time Easily implement DevOps by following the simple instructions fully explained inside this guide It doesn t matter if you have never used DevOps before this book gives you detailed chapters on the principles of DevOps all of its features and exactly how to implement them This step by step guide gives you everything you need to know to unlock the power of DevOps and do more in your business and with your team than you ever thought possible Here is a preview of what you will learn in this guide What is DevOps History and Development of Dev Ops Basic Ideas of DevOps Dev Ops Toolchains Stages of Dev Ops Planning Creating Verification Packaging Release Configuration Monitoring Why Use DevOps Understanding and Implementing the CALMS Framework of Dev Ops Culture Automation Lean Measurement Sharing What Tools Are Used in DevOps Source Code Repository Git Build Server Jenkins Amazon CodeBuild Configuration Management Puppet Virtual Infrastructure Docker Amazon Web Services Integrating Amazon Cloud Computing into Dev Ops Microsoft Azure Integrating Azure Cloud Computing into Dev Ops Test Automation EC2 Systems Manager Patch Manager Automation Pipeline Orchestration CodePipeline CodeDeploy DevOps services Continuous Delivery Continuous Delivery vs Continuous Deployment Continuous Delivery Benefits Continuous Integration Why is Continuous Integration Needed How does Continuous Integration Work Continuous Integration Benefits Infrastructure as a Service IaaS Platform as a Service PaaS Software as a Service SaaS Dev Ops as a Service DaaS Dev Ops as a managed cloud service Monitoring and Logging Amazon CloudWatch Communication and Collaboration And so much more Even if you have never used DevOps before have no fear With this guide in your hands that will not be a barrier for you any longer Learn to master all the best features of DevOps easily when you grab this guide now *Continuous Delivery Handbook* Stephen Fleming,2018-09-11 Are you a non coder looking for insight into Continuous Delivery with DevOps Microservices Architecture and Kubernetes You may be a Consultant Advisor Project Manager or a novice into IT industry after going through this guide you would be able to appreciate Continuous Delivery through DevOps Microservices and other related concepts like Kanban Scrum Agile SOA Monolith Architecture DevOps Docker Kubernetes etc This guide will clarify your conceptual queries with case studies examples and diagrams You would also get to know about the leaders in DevOps and Microservices adoption and impact it had on the overall agility and hyper growth of the adopters This book covers the

complete lifecycle for your understanding like Integrating Testing Deploying DevOps and Microservices architecture and the Security concerns while deploying it I am confident that after going through the book you would be able to navigate the discussion with any stakeholder and take your agenda ahead as per your role Additionally if you are new to the industry and looking for an application development job this book will help you to prepare with all the relevant information and understanding of the topic So as Charles Darwin Said It is not the strongest of the species that survive or the most intelligent but the one most responsive to change Be adaptive to the changes in the software Development Industry and ride ahead with Continuous Delivery I am also providing additional booklet containing all the relevant news trends and resources for DevOps and Microservices Architecture

[Jenkins Essentials - Second Edition](#) Mitesh Soni, 2017-06-30 Develop a base for DevOps culture by implementing Continuous Integration and Continuous Delivery including automated builds unit test execution packaging and static code analysis with Jenkins 2 About This Book Explore Continuous Integration and automation along with how to manage and configure Jenkins Master using Jenkins to build test and package Java applications Learn about Jenkins extensible features with automated deployment on cloud platforms such as AWS Elastic Beanstalk and Microsoft Azure App Services Learn about creating a pipeline using Build Pipeline plugin and the Pipeline as Code feature available after the release of Jenkins 2 0 Who This Book Is For If you are a Jenkins novice or beginner with a basic or no understanding of Continuous Integration then this is the book for you Beginners in Jenkins will get quick hands on experience and gain the confidence to explore the use of Jenkins further What You Will Learn Get to grips with the challenges faced by developer communities Learn about Continuous Integration and how it helps build various Java applications Facilitate the installation and configuration of Jenkins Install and configure code repositories and build tools Learn about the integration of Eclipse with Jenkins Manage the integration of Jenkins code repositories and build tools Familiarize yourself with Continuous Integration for Java applications with unit test execution and static code analysis Learn about Continuous Delivery and how to deploy applications in AWS and Microsoft Azure In Detail In agile development practices developers need to integrate their work frequently to fix bugs or to create a new feature or functionality Jenkins is used specifically for Continuous Integration helping to enforce the principles of agile development This book focuses on the latest and stable release of Jenkins 2.5 and later featuring the latest features such as Pipeline as Code the new setup experience and the improved UI With the all new Pipeline as Code feature you will be able to build simple or advanced pipelines easily and rapidly hence improving your teams productivity This book begins by tackling the installation of the necessary software dependencies and libraries you'll need to perform Continuous Integration for a Java application From there you'll integrate code repositories applications and build tools for the implementation of Continuous Integration Finally you will also learn how to automate your deployment on cloud platforms such as AWS and Microsoft Azure along with a few advanced testing techniques Style and approach This book provides simple step by step instructions taking you from start to finish in accomplishing real world Continuous Integration

and Continuous Delivery tasks      **Practical DevOps, Second Edition** Joakim Verona, 2018-05-30 Understand the benefits of DevOps and continuous delivery and see how they support the agile software development process Key Features Learn how DevOps can accelerate your entire software development life cycle Improve your organization's performance to ensure the smooth production of software and services Get hands on experience in using efficient DevOps tools to better effect Book Description DevOps is a practical field that focuses on delivering business value as efficiently as possible DevOps encompasses all code workflows from testing environments to production environments It stresses cooperation between different roles and how they can work together more closely as the roots of the word imply Development and Operations Practical DevOps begins with a quick refresher on DevOps and continuous delivery and quickly moves on to show you how DevOps affects software architectures You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters Following this you will explore various code storage and build server options You will then learn how to test your code with a few tools and deploy your test successfully In addition to this you will also see how to monitor code for any anomalies and make sure that it runs as expected Finally you will discover how to handle logs and keep track of the issues that affect different processes By the end of the book you will be familiar with all the tools needed to deploy integrate and deliver efficiently with DevOps What you will learn Understand how all deployment systems fit together to form a larger system Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application suitable for continuous deployment systems with DevOps in mind Store and manage your code effectively using Git Gerrit Gitlab and more Configure a job to build a sample CRUD application Test your code using automated regression testing with Jenkins Selenium Deploy your code using tools such as Puppet Ansible Palletops Chef and Vagrant Who this book is for If you're a developer or system administrator looking to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works this is the book for you This book will also help you greatly if you're an operations worker who would like to better support developers You do not need any previous knowledge of DevOps to understand the concepts in this book      *Learning Continuous Integration with Jenkins* Nikhil Pathania, 2017-12-20 Speed up the software delivery process and software productivity using the latest features of Jenkins Key Features Take advantage of a Continuous Integration and Continuous Delivery solution to speed up productivity and achieve faster software delivery See all the new features introduced in Jenkins 2.x such as Pipeline as code Multibranch pipeline Docker Plugin and more Learn to implement Continuous Integration and Continuous Delivery by orchestrating multiple DevOps tools using Jenkins Book Description In past few years agile software development has seen tremendous growth There is a huge demand for software delivery solutions that are fast yet flexible to numerous amendments As a result Continuous Integration CI and Continuous Delivery CD methodologies are gaining popularity This book starts off by explaining the concepts of CI and its significance in the Agile Next you'll learn how to configure and set up Jenkins in many different ways The book exploits the concept of

pipeline as code and various other features introduced in the Jenkins 2.x release to their full potential. We also talk in detail about the new Jenkins Blue Ocean interface and the features that help to quickly and easily create a CI pipeline. Then we dive into the various features offered by Jenkins one by one, exploiting them for CI and CD. Jenkins core functionality and flexibility allows it to fit in a variety of environments and can help streamline the development process for all stakeholders. Next, you'll be introduced to CD and will learn how to achieve it using Jenkins. Through this book's wealth of best practices and real-world tips, you'll discover how easy it is to implement CI and CD using Jenkins. What you will learn: Get to know some of the most popular ways to set up Jenkins. See all the new features introduced in the latest Jenkins, such as pipeline as code, Multibranch pipeline, and more. Manage users, projects, and permissions in Jenkins to ensure better security. Leverage the power of plugins in Jenkins. Learn how to create a CI pipeline using Jenkins Blue Ocean. Create a distributed build farm using Docker and use it with Jenkins. Implement CI and CD using Jenkins. See the difference between CD and Continuous Deployment. Understand the concepts of CI. Who this book is for: The book is for those with little or no previous experience with Agile or CI and CD. It's a good starting point for anyone new to this field who wants to leverage the benefits of CI and CD to increase productivity and reduce delivery time. It's ideal for Build and Release engineers, DevOps engineers, SCM Software Configuration Management engineers, developers, testers, and project managers. If you're already using Jenkins for CI, you can take your project to the next level. CD. DevOps: Continuous Delivery, Integration, and Deployment with DevOps Sricharan Vadapalli, 2018-03-13. Explore the high in demand core DevOps strategies with powerful DevOps tools such as Ansible, Jenkins, and Chef. Key Features: Get acquainted with methodologies and tools of the DevOps framework. Perform continuous integration, delivery, deployment, and monitoring using DevOps tools. Explore popular tools such as Git, Jenkins, Maven, Gerrit, Nexus, Selenium, and so on. Embedded with assessments that will help you revise the concepts you have learned in this book. Book Description: DevOps is the most widely used software engineering culture and practice that aims at software development and operation. Continuous integration is a cornerstone technique of DevOps that merges software code updates from developers into a shared central mainline. This book takes a practical approach and covers the tools and strategies of DevOps. It starts with familiarizing you with the DevOps framework and then shows how to perform continuous delivery, integration, and deployment with DevOps. You will explore DevOps process maturity frameworks and progression models with checklist templates for each phase of DevOps. You will also be familiar with agile terminology, methodology, and the benefits accrued by an organization by adopting it. You will also get acquainted with popular tools such as Git, Jenkins, Maven, Gerrit, Nexus, Selenium, and so on. You will learn configuration automation and the implementation of infrastructure automation. Infrastructure as Code with tools such as Chef and Ansible. This book is ideal for engineers, architects, and developers who wish to learn the core strategies of DevOps. What you will learn: Get familiar with life cycle models, maturity states, progression, and best practices of DevOps frameworks. Learn to set up Jenkins and integrate it with Git. Know how to

build jobs and perform testing with Jenkins Implement infrastructure automation Infrastructure as Code with tools such as Chef and Ansible Understand continuous monitoring process with tools such as Splunk and Nagios Learn how Splunk improves the code quality Who this book is for This book is for engineers architects and developers who wish to learn the core strategies of DevOps     *DevOps Master Courseware* Alejandro Pestchanker, 2019-10-25 Besides the DevOps Master Courseware ISBN 978 94 018 313 7 publication you are advised to obtain the publication *The DevOps Handbook How to Create World Class Agility Reliability and Security in Technology Organizations* ISBN 978 19 427 8800 3 The word DevOps is a contraction of Development and Operations DevOps is a set of best practices that emphasize the collaboration and communication of IT professionals developers operators and support staff in the lifecycle of applications and services leading to Continuous Integration merging all developed working copies to a shared mainline server Besides the DevOps Master Courseware ISBN 978 94 018 362 5 publication you are advised to obtain the publication *The DevOps Handbook How to Create World Class Agility Reliability and Security in Technology Organizations* ISBN 978 19 427 8800 3 The word DevOps is a contraction of Development and Operations DevOps is a set of best practices that emphasize the collaboration and communication of IT professionals developers operators and support staff in the lifecycle of applications and services leading to Continuous Integration merging all developed working copies to a shared mainline several times a day Continuous Deployment release continuously or as often as possible Continuous Feedback seek feedback from stakeholders during all lifecycle stages The DevOps practices covered in this certification are derived from the Three Ways The First Way is to enable the work to move fast from left to right from Development to Operations to the customer The Second Way is to enable feedback to go fast from right to left from all stakeholders back into the value stream The Third Way is to enable learning by creating a high trust culture of experimentation and risk taking Moreover the crucial subjects of security in all stages and maintaining compliance during change are covered The certification has been developed in cooperation with experts in the DevOps work field Recommended per knowledge Pre knowledge of Agile Lean and or IT Service Management for instance through the EXIN Agile Scrum Foundation exam LITA Lean IT Foundation exam or EXIN IT Service Management Foundation based on ISO IEC 20000 exam is recommended at times a day Continuous Deployment release continuously or as often as possible Continuous Feedback seek feedback from stakeholders during all lifecycle stages The DevOps practices covered in this certification are derived from the Three Ways The First Way is to enable the work to move fast from left to right from Development to Operations to the customer The Second Way is to enable feedback to go fast from right to left from all stakeholders back into the value stream The Third Way is to enable learning by creating a high trust culture of experimentation and risk taking Moreover the crucial subjects of security in all stages and maintaining compliance during change are covered The certification has been developed in cooperation with experts in the DevOps work field Recommended per knowledge Pre knowledge of Agile Lean and or IT Service Management for instance through the EXIN Agile Scrum

Foundation exam LITA Lean IT Foundation exam or EXIN IT Service Management Foundation based on ISO IEC 20000 exam is recommended

*Learning DevOps* Mikael Krief, 2022-03-31 Implement modern DevOps techniques to increase business productivity agility reliability security and scalability Key Features Learn how to use business resources effectively for improved productivity and collaboration Use infrastructure as code practices to build large scale cloud infrastructure Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery CI CD Book Description In the implementation of DevOps processes the choice of tools is crucial to the sustainability of projects and collaboration between developers and ops This book presents the different patterns and tools for provisioning and configuring an infrastructure in the cloud covering mostly open source tools with a large community contribution such as Terraform Ansible and Packer which are assets for automation This DevOps book will show you how to containerize your applications with Docker and Kubernetes and walk you through the construction of DevOps pipelines in Jenkins as well as Azure pipelines before covering the tools and importance of testing You ll find a complete chapter on DevOps practices and tooling for open source projects before getting to grips with security integration in DevOps using Inspec Hashicorp Vault and Azure Secure DevOps kit You ll also learn about the reduction of downtime with blue green deployment and feature flags techniques before finally covering common DevOps best practices for all your projects By the end of this book you ll have built a solid foundation in DevOps and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques What you will learn Understand the basics of infrastructure as code patterns and practices Get an overview of Git command and Git flow Install and write Packer Terraform and Ansible code for provisioning and configuring cloud infrastructure based on Azure examples Use Vagrant to create a local development environment Containerize applications with Docker and Kubernetes Apply DevSecOps for testing compliance and securing DevOps infrastructure Build DevOps CI CD pipelines with Jenkins Azure Pipelines and GitLab CI Explore blue green deployment and DevOps practices for open sources projects Who this book is for If you are an application developer or a system administrator interested in understanding continuous integration continuous delivery and containerization with DevOps tools and techniques this book is for you Knowledge of DevOps fundamentals and Git principles is required

**Learning DevOps** Mikael Krief, 2019-10-25 Simplify your DevOps roles with DevOps tools and techniques Key Features Learn to utilize business resources effectively to increase productivity and collaboration Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery CI CD Ensure faster time to market by reducing overall lead time and deployment downtime Book Description The implementation of DevOps processes requires the efficient use of various tools and the choice of these tools is crucial for the sustainability of projects and collaboration between development Dev and operations Ops This book presents the different patterns and tools that you can use to provision and configure an infrastructure in the cloud You ll begin by understanding DevOps culture the application of

DevOps in cloud infrastructure provisioning with Terraform configuration with Ansible and image building with Packer You ll then be taken through source code versioning with Git and the construction of a DevOps CI CD pipeline using Jenkins GitLab CI and Azure Pipelines This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes You ll learn how to reduce deployment downtime with blue green deployment and the feature flags technique and study DevOps practices for open source projects Finally you ll grasp some best practices for reducing the overall application lead time to ensure faster time to market By the end of this book you ll have built a solid foundation in DevOps and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques What you will learn Become well versed with DevOps culture and its practices Use Terraform and Packer for cloud infrastructure provisioning Implement Ansible for infrastructure configuration Use basic Git commands and understand the Git flow process Build a DevOps pipeline with Jenkins Azure Pipelines and GitLab CI Containerize your applications with Docker and Kubernetes Check application quality with SonarQube and Postman Protect DevOps processes and applications using DevSecOps tools Who this book is for If you are a developer or a system administrator interested in understanding continuous integration continuous delivery and containerization with DevOps tools and techniques this book is for you

**A Practical Guide to Continuous Delivery** Eberhard Wolff, 2017-02-24 Using Continuous Delivery you can bring software into production more rapidly with greater reliability A Practical Guide to Continuous Delivery is a 100% practical guide to building Continuous Delivery pipelines that automate rollouts improve reproducibility and dramatically reduce risk Eberhard Wolff introduces a proven Continuous Delivery technology stack including Docker Chef Vagrant Jenkins Graphite the ELK stack JBehave and Gatling He guides you through applying these technologies throughout build continuous integration load testing acceptance testing and monitoring Wolff s start to finish example projects offer the basis for your own experimentation pilot programs and full fledged deployments A Practical Guide to Continuous Delivery is for everyone who wants to introduce Continuous Delivery with or without DevOps For managers it introduces core processes requirements benefits and technical consequences Developers administrators and architects will gain essential skills for implementing and managing pipelines and for integrating Continuous Delivery smoothly into software architectures and IT organizations Understand the problems that Continuous Delivery solves and how it solves them Establish an infrastructure for maximum software automation Leverage virtualization and Platform as a Service PAAS cloud solutions Implement build automation and continuous integration with Gradle Maven and Jenkins Perform static code reviews with SonarQube and repositories to store build artifacts Establish automated GUI and textual acceptance testing with behavior driven design Ensure appropriate performance via capacity testing Check new features and problems with exploratory testing Minimize risk throughout automated production software rollouts Gather and analyze metrics and logs with Elasticsearch Logstash Kibana ELK and Graphite Manage the introduction of Continuous Delivery into your enterprise Architect software to

facilitate Continuous Delivery of new capabilities      Continuous Delivery 2.0 Qiao Liang, 2021-12-29 The agile transformation is an act of transforming an organization's form or nature gradually to one that can embrace and thrive in a flexible collaborative self-organizing and fast-changing environment. It seems like most of the companies starting an agile transformation never reach the goal of agility, but there are those few that truly become agile and reap incredible benefits by utilizing DevOps as well. This book introduces the theory and practice of the double flywheels model of Continuous Delivery 2.0 Discovery Loop, which allows information technology (IT) organizations to help businesses figure out the most efficacious ways to develop. Additionally, it explores applications of the Verification Loop that allows IT organizations to deliver value quickly and safely with high quality. Along the way, the book provides an array of insights and case studies that dive into all the aspects of software delivery and how to implement Continuous Delivery in the most economical way for long-run business development. Features: Organization culture and software architecture, Business requirement management, Pipeline and tooling, Branching and releasing strategy, Automation strategy, Configuration and artefacts management, Deployment and production healthy. The case studies at the end of the book, scenarios in which the author was personally involved, are explored in depth and meticulously detailed in order to represent typical agile transition scenarios that will benefit all readers.

The DevOps Handbook Gene Kim, Jez Humble, Patrick Debois, John Willis, Nicole Forsgren, 2021-11-30 This award-winning and bestselling business handbook for digital transformation is now fully updated and expanded with the latest research and new case studies. The DevOps Handbook remains a must-read for any organization seeking to scale up its IT capability and expand DevOps practices across multiple departments or lines of business. Mike Perrow, TechBeacon. For years, The DevOps Handbook has been the definitive guide for taking the successes laid out in the bestselling *The Phoenix Project* and applying them in any organization. Now with this fully updated and expanded edition, it's time to take DevOps out of the IT department and apply it across the full business. Technology is now at the core of every company, no matter the business model or product. The theories and practices laid out in *The DevOps Handbook* are tools to be used by anyone from across the organization to create joy and succeed in the marketplace. The second edition features 15 new case studies, including stories from Adidas, American Airlines, Fannie Mae, Target, and the US Air Force. In addition, renowned researcher and coauthor of *Accelerate*, Dr. Nicole Forsgren, provides her insights through new and updated material and research. With over 100 pages of new content throughout the book, this expanded edition is a must-read for anyone who works with technology. The DevOps Handbook is a practical roadmap to improving IT in any organization. It's also the most valuable book on software development I've read in the past 10 years. Adam Hawkins, software developer and host of the podcast *Small Batches*.

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